Tele Radio Panther

SAFETY INSTRUCTIONS

LANGUAGE: ENGLISH (ORIGINAL)

ARTICLE CODE: PN-R8-1, PN-R8-2, PN-R8-6, PN-T7-3, PN-T7-4, PN-T7-5.

Thank you for puchasing a Tele Radio product

PN-R8-1, PN-R8-2, PN-R8-6, PN-T7-3, PN-T7-4, PN-T7-5

INSTRUCTIONS ARE AVAILABLE FOR DOWNLOAD AT: www.tele-radio.com

READ ALL INSTRUCTIONS CAREFULLY BEFORE MOUNTING, INSTALLING AND CONFIGURATING THE PRODUCT.

These instructions are published by Tele Radio AB without any guarantee. These instructions are solely directed towards qualified installers. The instructions may be removed or revised by Tele radio AB at any time and without any further notice. Corrections and additions will be added to the updated versions of the instructions.

The instructions that contain information on the installation and configuration of the remote radio control unit on the machine are not intended to be passed on to the end user. Only such information may be passed on to the end user, that is needed to operate the machine correctly by radio remote control.

Tele Radio AB products are covered by a guarantee against material, construction or manufacturing faults. During the guarantee period, Tele Radio AB may replace the product or faulty parts with new. Work under guarantee must be carried out by Tele Radio AB or by an authorized service centre specified by Tele Radio AB. Make sure that repairs and maintenance are only carried out by qualified personnel. Use only spare parts from Tele Radio AB. Contact your Tele Radio representative if you need service or support. The EC declaration of conformity can be downloaded from our website.

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The helpdesk group can help you with questions regarding service and technical support.

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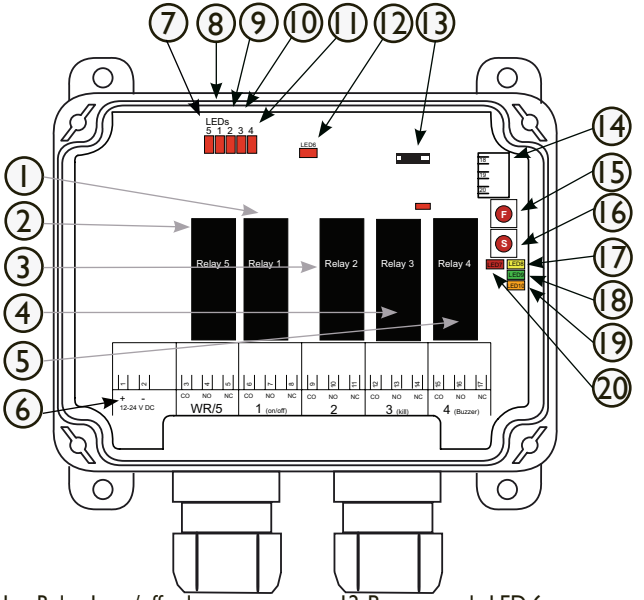
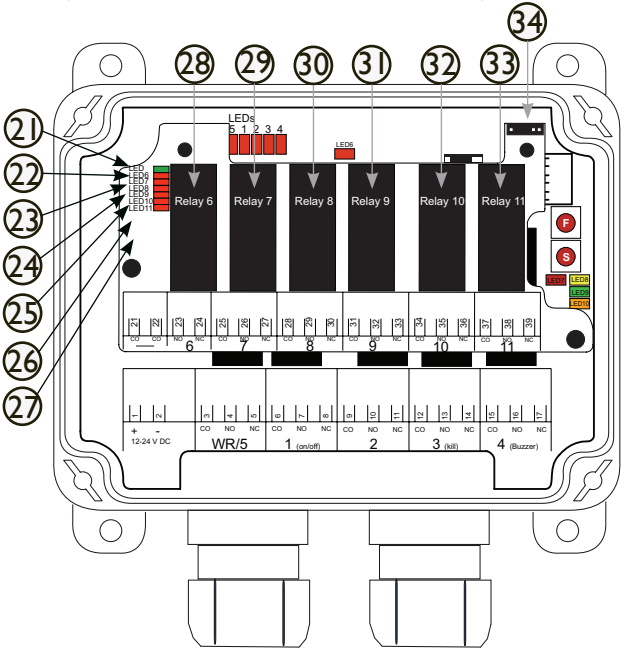
TECHNICAL DATA RECEIVER
R8-1 (BASE BOARD)



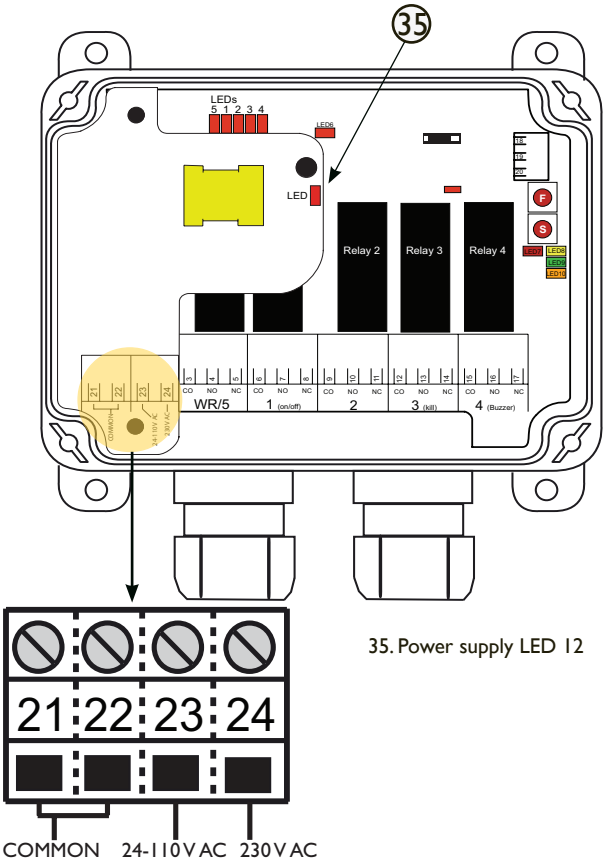
1. Relay 1- on/off relay
2. Relay 5- working relay
3. Relay 2
4. Relay 3- kill relay
5. Relay 4- buzzer relay
6. Power supply connection 6-30 V DC
7. Relay LED 5
8. Relay LED 1
9. Relay LED 2
10. Relay LED 3
11. Relay LED 4
12. Power supply LED 6
13. Trabus programming connector
14. Terminal block for RS232
15. Function button (Cancel)
16. Select button (OK)
17. LED 8
18. Base board communication LED 9
19. LED 10
20. LED 7

R8-6 (BASE + RELAY EXPANSION BOARD)



21. Expansion board communication LED 11
22. Relay LED 6
23. Relay LED 7
24. Relay LED 8
25. Relay LED 9
26. Relay LED 10
27. Relay LED 11
28. Relay 6
29. Relay 7
30. Relay 8
31. Relay 9
32. Relay 10
33. Relay 11
34. Trabus programming connector

R8-2 (BASE + HIGH VOLTAGE EXPANSION BOARD)



35. Power supply LED 12

Recommended cable for RS232 is a twisted or shielded cable.

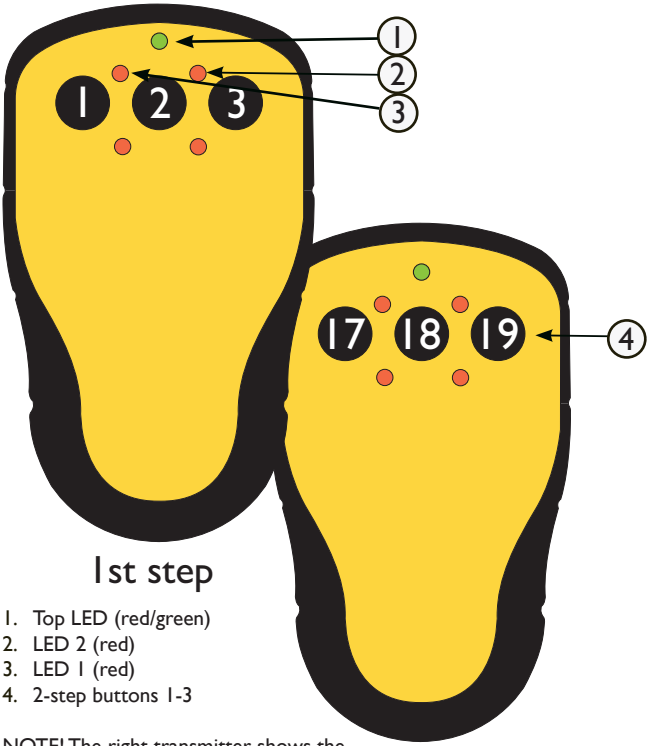
Current consumption

RX MODEL	SUPPLY VOLTAGE	MAX. CURRENT CONSUMPTION
R8-1	12-24 V DC	<200 mA.
R8-2	24-230 V AC	<200 mA.
R8-6	12-24 V DC	<300 mA.

Technical data

FUNCTIONAL RELAYS:	5/ 11 potential free* functional relays makes/ breaks 8A ACI
NUMBER OF CHANNELS:	16
SIZE:	120 x 116 x 50 mm./ 4.7" x 4.6" x 2"
WEIGHT:	400-500 grams/ 14-18 oz.
IP CLASS:	IP66

TECHNICAL DATA TRANSMITTER
3-BUTTONS TRANSMITTER T5

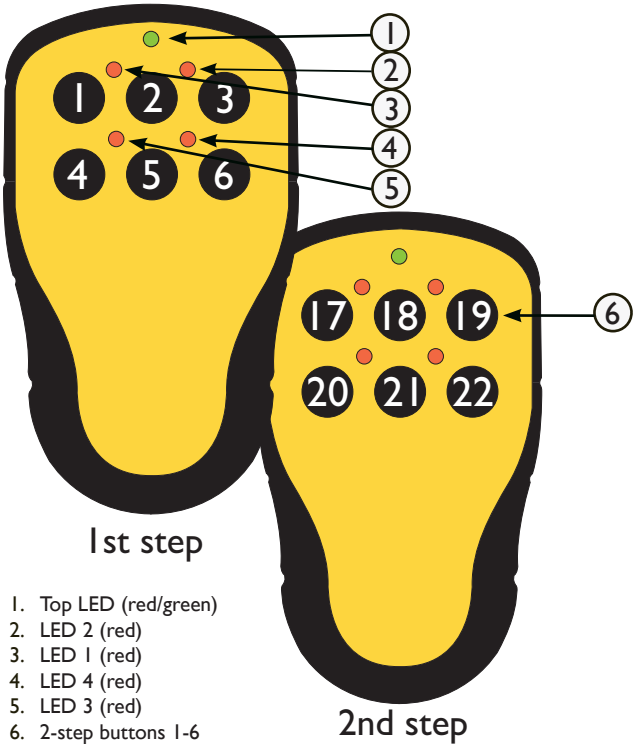


1. Top LED (red/green)
2. LED 2 (red)
3. LED 1 (red)
4. 2-step buttons 1-3

NOTE! The right transmitter shows the button positions for the second step on the 3-button transmitter.

Frequency: 2405-2480 MHz.

6-BUTTONS TRANSMITTER T4

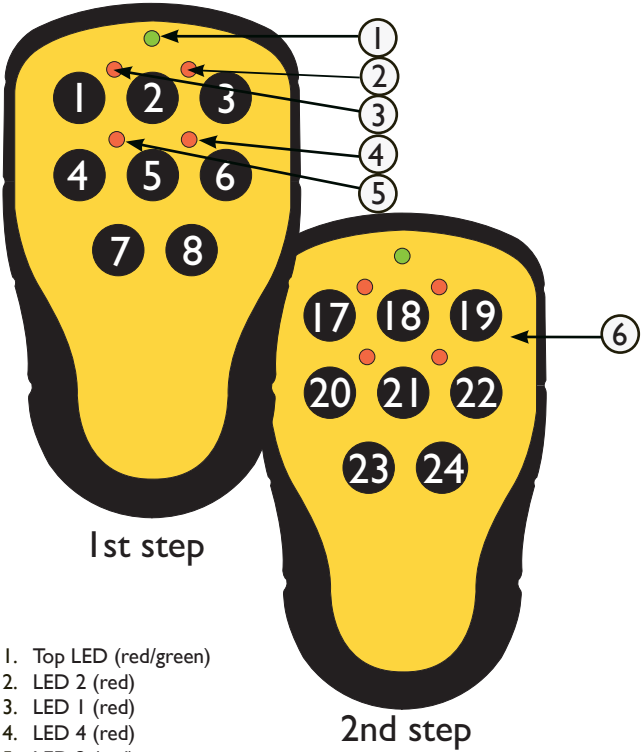


1. Top LED (red/green)
2. LED 2 (red)
3. LED 1 (red)
4. LED 4 (red)
5. LED 3 (red)
6. 2-step buttons 1-6

NOTE! The right transmitter shows the button positions for the second step on the 6-button transmitter.

Frequency: 2405-2480 MHz.

8-BUTTONS TRANSMITTER T3



1. Top LED (red/green)
2. LED 2 (red)
3. LED 1 (red)
4. LED 4 (red)
5. LED 3 (red)
6. 2-step buttons 1-8

NOTE! The right transmitter shows the button positions for the second step on the 8-button transmitter.

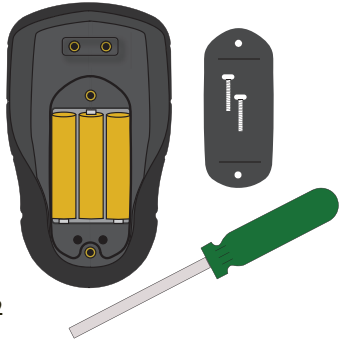
Frequency: 2405-2480 MHz.

BATTERIES

BATTERY TYPE:	3 x 1.5 V AAA alkaline
OPERATING TIME:	Approx. 15 h. with continuous usage

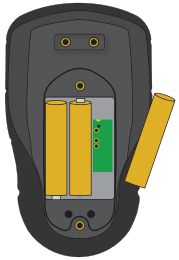
WARNING! Do not recharge! Attempts to recharge may cause rupture, or the leaking of hazardous liquids which will corrode the equipment.

CHANGE THE BATTERIES



1. Remove the clip (2 screws).
2. Remove the battery cover (2 screws).
3. Remove the batteries, starting with the one in the middle.
4. Put the new batteries (3 x 1.5V AAA batteries) in, starting with the battery to the left or to the right.
5. Put back the battery cover (2 screws).

PROGRAM THE TRANSMITTER



1. Remove the clip (2 screws).
2. Remove the battery cover (2 screws).
3. Remove the right battery. The programming connector is placed behind the battery.

SETTINGS

DEFAULT STATE

- discontinuous radiotransmission
- no on/off function

The system will start transmitting as soon as the batteries are inserted and a transmitter button is pressed. Radio transmission will end as soon as no transmitter button is being pressed.

START THE TRANSMITTER

1. Start the transmitter by pressing any transmitter button.

TURN THE TRANSMITTER OFF

1. The transmitter turns off when no transmitter button is pressed.

REGISTER THE TRANSMITTER IN THE RECEIVER

1. Press the receiver Function button until red LED 7 lights up.
2. Press the receiver Select button until LEDs 1-5 light.
3. Press any transmitter button, e.g. button 1 until LEDs 1-10 flash 3 times before going out.

ERASE ALL TRANSMITTERS FROM THE RECEIVER

1. Press the receiver Function button and the Select button at the same time until red LED 1-5 go out.

NOTE! If red LED 7 flashes slowly, one or several transmitters are still registered in the receiver.

RELAY SETTINGS

All buttons (step 1 and/ or 2) as well as all relays can be re-mapped using the PC program Settings manager. At delivery, the default relay setting is:

R8-1:
Transmitter button 1 (1st + 2nd step) activates relay 1
Transmitter button 2 (1st + 2nd step) activates relay 2
Transmitter button 3 (1st + 2nd step) activates relay 3
Transmitter button 4 (1st + 2nd step) activates relay 4
Transmitter button 5 (1st + 2nd step) activates relay 5

R8-6 with a 6 relay expansion board connected:
Transmitter button 6 (1st + 2nd step) activates relay 6
Transmitter button 7 (1st + 2nd step) activates relay 7
Transmitter button 8 (1st + 2nd step) activates relay 8

LED INDICATIONS

LED INDICATIONS DURING START UP

1. All receiver relay-LEDs lit up for 0.5 sec.
2. Indications for settings are shown for 2 sec. Contact your representative if you have problems starting the system.

LED INDICATIONS IN PROGRAMMING MODE

LED 7	red	ON	
LED 8	yellow	ON	
LED 9	green	ON	
LED 10	orange	ON	

LED INDICATIONS DURING OPERATION

LED 7	red	OFF	No transmitter registered
		flashes (on 500 ms./ off 1.5 s.)	Transmitter logged in.
		flashes (on 1 s./ off 1 s.)	At least one transmitter registered. No radio transmission.
		ON	Valid radio packages from transmitter received.

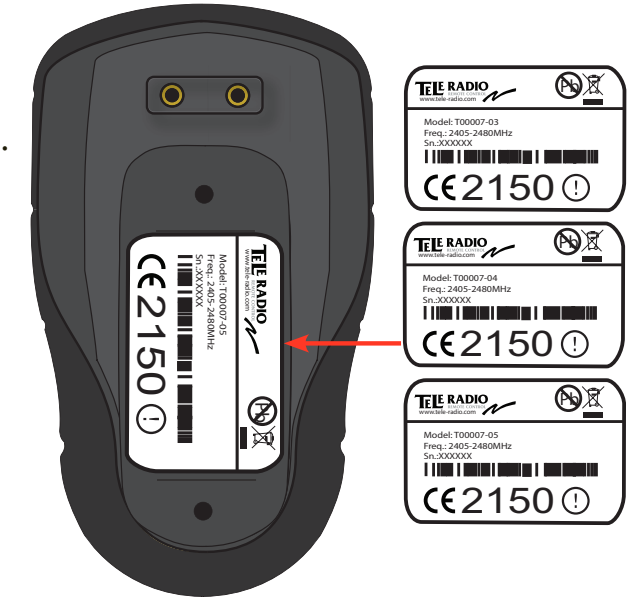
ERROR LED INDICATIONS

LED 7 (red)	+	LED 8 (yellow)	ON	The receiver can not read the start-up information. Contact your representative.
LED 7 (red)			ON	Radio module setup failed. Contact your representative.

LED 8			ON	A radio package not coming from a Panther transmitter is received.
LED 8	+	LED 9	ON	A radio package is received, but is not accepted. Contact your representative.
LED 8	+	LED 10	ON	A radio package is received from a transmitter that is not registered. Register the transmitter, or switch to another frequency.
LED 9			ON	A radio package is received, but the radio signal strength is too weak. Contact your representative for more information.
LED 10			ON	A radio package is received, but is not accepted. Contact your representative.

PLACEMENT OF LABELS WITH IC AND FCC INFORMATION

1. Product label



The product label is placed under the clip on the battery lid. Remove the clip (2 screws).

2. IC and FCC ID label

The IC label is placed on the left side of the battery clip. The FCC ID label is placed on the right side of the battery clip (see picture).

The mobile device is also designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body is 0.087 W/kg.

FCC STATEMENTS

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
1. THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE

2. THIS DEVICE MUST ACCEPT ANY INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION. NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER´S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS EQUIPMENT COMPLIES WITH FCC RADIATION EXPOSURE LIMITS SET FORTH FOR AN UNCONTROLLED ENVIRONMENT.

END USER MUST FOLLOW THE SPECIFIC OPERATING

INSTRUCTIONS FOR SATISFYING RF EXPOSURE COMPLIANCE. THIS TRANSMITTER MUST NOT BE CO-LOCATED OR OPERATING IN CONJUNCTION WITH ANY OTHER ANTENNA OR TRANSMITTER.

GUARANTEE, SERVICE, REPAIRS AND MAINTENANCE

The Tele Radio products are covered by a guarantee against material, construction and manufacturing faults. During the guarantee period, Tele Radio may replace the product or faulty parts. Work under guarantee must be carried out by Tele Radio or by an authorized service centre specified by Tele Radio. This is not covered by the guarantee: Faults resulting from normal wear and tear. Parts of a consumable nature. Products that have been subject to unauthorized modifications. Faults resulting from incorrect installation and use. Damp and water damage. Repairs and maintenance must be carried out by qualified personnel. Use spare parts from Tele Radio only. Contact your representant or HelpDesk if you require service or other assistance. Keep the product in a dry, clean place. Keep contacts and antennas clean. Wipe off dust using a slightly damp, clean cloth. Never use cleaning solutions or high-pressure water.

BATTERY PRECAUTIONS

Observe the following warnings. As batteries contains flammable substances such as lithium or other organic solvents, they may cause heating, rupture or ignition.

- Risk of explosion if battery is replaced with a battery of an incorrect type.
- Do not short circuit, disassemble, deform or heat batteries.
- Never try to charge a visibly damaged or frozen battery.
- Do not charge rechargeable batteries with a higher voltage than specified.
- Keep batteries out of reach of small children. Should a child swallow a battery, consult a physician immediately.
- Avoid direct soldering to batteries.
- When discarding batteries, insulate the + and - terminals of batteries with insulating/ masking tape. Do not put multiple batteries in the same plastic bag.
- When improperly disposed, lithium batteries may short circuit, causing them to become hot, burst or ignite.
- Store in a cool location. Keep batteries away from direct sunlight, high temperature, and high humidity.
- Do not throw batteries into fire.

DISPOSAL OF BATTERIES

An alkaline battery does not contain mercury, cadmium or lead, and is better for the environment than older types of batteries. Alkaline batteries should be disposed through local recycling stations/waste dumps. Contact your local government's recycling or solid waste department for more information on proper recycling of alkaline batteries in your region.

DISPOSAL OF ELECTRONICS

Improperly disposed electronics may harm public health and the environment. Batteries and electronic waste may contain toxic heavy metals. If thrown away in the trash, the toxic compounds can leach into soil and water, pollute lakes and streams, making them unfit for drinking, swimming, fishing, and wildlife. Contact your local government's recycling or solid waste department for more information on proper disposal of electronics in your region.

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